PATENT COOPERATION TREATY

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From th		NAL SEARCHII	NG AUTHOR	ITY		"ANS,					
To:						PCT PCT					
					WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
						(PCT Rule 43bis.1) -					
					Date of mailing (day/month/year)						
		gent's file referen	ice		FOR FURTHER ACTION See paragraph 2 below						
International application No. Internat				International filing date 25.11.2004							
Interna	tional Pa	tent Classificatio	n (IPC) or both	n national classification a	nd IPC						
Applica ME F		N CORPOR	ATION								
1.	This o	pinion contains i	ndications rela	ting to the following item	is:						
	\boxtimes	Box No. I	Basis of the	opinion							
		Box No. II	Priority								
		Box No. III	Non-establi	shment of opinion with re	gard to novelty, inver	ntive step and industrial applicability					
		Box No. IV	Lack of unit	ty of invention							
		Box No. V		atement under Rule 43bis y; citations and explanation		o novelty, inventive step or industrial atement					
		Box No. VI	Certain doc	uments cited							
	닏	Box No. VII	Certain defe	ects in the international ap	plication						
		Box No. VIII	Certain obse	ervations on the internation	onal application						
2.	FUR1	THER ACTION									
į	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.										
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Forn PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.										
	For fu	rther options, see	Form PCT/IS	A/220.							
3.	For fu	rther details, see	notes to Form	PCT/ISA/220.							
Name a	nd maili	ng address of the	ISA/JP		Authorized officer						
		g udalos vi tik									
Facsimi	ile No				Telephone No.						
T #53111					1						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/017906

Box	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
1	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/017906

Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)		Claims	1-16	YES	
			Claims		NO	
	Inventive step (IS)		Claims	12-16	YES	
			Claims	1-11	NO	
	Industrial	applicability (IA)	Claims	1-16	YES	
			Claims		NO	
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2. Citations and explanations:

Document 1: WO, 2003-040370, A1 (Sumitomo Chemical Col, Ltd.), 15 May, 2003 (15.05.03)

* Claims 1-11

Document 1 describes a protein having the capability of metabolizing a weed control active compound. This protein is a ferredoxin and has a homology of about 80-90% with the base sequences of sequence numbers 1-3 in the sequence table of the present application. Therefore, the DNA that codes, in part of as a whole, a protein having 16-hydroxylase activity or a ferredoxin used in a production wherein a specific macrolide derivative is converted into a 16-hydroxylated macrolide compound could easily be conceived of by an expert in the said technical field in view of the descriptions of said document 1.

Consequently, none of the inventions described in claims 1-11 of the present application appear to involve an inventive step in view of the descriptions of the above document 1.

* Claims 12-16

The inventions described in claims 12-16 for a production method wherein a specific macrolide derivative is converted into a 16-hydroxylated macrolide compound appears to be novel and to involve an inventive step, even in view of the descriptions of the above document 1 cited in the ISR.